

## 58049-00035.ST25\_Substitute (3-19-07)

## SEQUENCE LISTING

<110> Korea Research Institute of Bioscience and Biotechnology  
KWAK, Sang-Soo  
KWON, Suk-Yoon  
LEE, Haeng-Soon  
RYU, Sun-Hwa

<120> Multiple stress-inducible peroxidase promoter derived from  
Ipomoea batatas

<130> 58049-00035

<140> US 10/597,945  
<141> 2006-08-11

<150> PCT/KR2004/000381  
<151> 2004-02-24

<160> 30

<170> KopatentIn 1.71

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aagtggctgc tagacaacac tctagagtcg tcagtggccg acgtgctctc actacgccta 180  
ggcatctcct ccggcaagct ttccgacgaa gactgcatat tctccgccgt taaggaagtg 240  
gtggacgccg ccattgatgc agaaaccgc atgggtgctt ccctcattcg cctcttcttc 300  
catgactgct ttgttgatgt acgtacgcta attttgtacg atgatgtttt tttttttttt 360  
tttttttttc cactgcatt atattaggaa attaaacaga ttgaaatgtg tgttattaat 420  
gtattatctg cagggttgtg acgcaggtct tctactaaac gatacaccta ctttcaccgg 480  
agaacagacc gccggcggca ataataactc agtcagaggt tttgaggtga tacaacaagc 540  
taaagagaat gtgataacca aatgtcccta catacaagta tcttgtgccg acatcttattc 600  
cattgctgcc cgtgattctt tccagagagt aagtccattt atttctaaag gttgaaatta 660  
ataagaacaa gaatccaaac aaataacaga cagtaaaaaa aaaagattta tgtggtttga 720  
caatatgttg aaattgtttt tatatttaat gactagtatt tatgcattat atttatatgc 780  
aactctaaac atgcagttta ctggagaaac gtacaccgtg actctgggaa gactcgatgc 840  
aagaacggcg aaccttaccg gagctaacac ccaactcgtc ggaccaaacg aggaattggc 900  
atcgcaagtc gagaaatttg cggcgaaagg gttctccgaa acggagctag tcgccttggt 960  
agggtgttcac acggttgggt tttcgagatg tccgctttta tgcgttccca ttttcatcaa 1020  
tcccgcccgg gcctccacgc tgcaatgcaa ctgtccggtg agtcccgcac acaccgggct 1080

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ggtgggcctg gacccactc cgttgacgtg ggaccaaagt ttttactccg acgtggctaa 1140
cggacaaggg cttctgttct ccgacaacga gctgatgaat agcaacacca ccagcgccgc 1200
cgtaggaggg tacagggacg agatggacgc ttttctcgcc gatttcgccg ccgccatggt 1260
gaagatgagc ctctgcccgc cgtcccccg agtggagctc gaaatccgag aggtttgcag 1320
cgaggtgaat gccaacacag ttgcatccat gtgaagtctg ttcccatcga catcaataac 1380
gtctgtgatt ctgtgaaagt tttactcgga ctgtgaagaa ttttactttt ctgttgtttc 1440
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ataaatttgt ta 1512

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<210> 2
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<212> DNA
<213> Ipomoea batatas

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<220>
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<222> (1)..(110)
<223> -110 deletion promoter

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<400> 2
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tcgaccactc atttcttctt catacttcct ttgctgtgat aatcatcatc 110

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<213> Ipomoea batatas

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<222> (1)..(177)
<223> -177 deletion promoter

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gaagaacttt ccctttcaag ttctctatct aaggaagcct gagaagccat taatcctcat 120
catcagctcg accactcatt tcttcttcat acttcctttg ctgtgataat catcatc 177

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<210> 4
<211> 306
<212> DNA
<213> Ipomoea batatas

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<220>
<221> promoter
<222> (1)..(306)
<223> -306 deletion promoter

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<400> 4  
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aaatagtact ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca 120  
aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta 180  
atactgatcg aagaactttc cttttcaagt tctctattta aggaagcctg agaagccatt 240  
aatcctcatc atcagctcga ccactcattt cttcttcata cttcctttgc tgtgataatc 300  
atcatc 306

<210> 5  
<211> 366  
<212> DNA  
<213> Ipomoea batatas  
<220>  
<221> promoter  
<222> (1)..(366)  
<223> -366 deletion promoter

<400> 5  
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taaggtgttt tatcgtggca gcatgagtgc atgacaaacg catatattat tattaataaca 120  
aaatagtact ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca 180  
aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta 240  
atactgatcg aagaactttc cttttcaagt tctctattta aggaagcctg agaagccatt 300  
aatcctcatc atcagctcga ccactcattt cttcttcata cttcctttgc tgtgataatc 360  
atcatc 366

<210> 6  
<211> 433  
<212> DNA  
<213> Ipomoea batatas  
<220>  
<221> promoter  
<222> (1)..(433)  
<223> -433 deletion promoter

<400> 6  
atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg 60  
gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt 120  
atcatggtaa ggtgttttat cgtggcagca tgagtgcacg acaaacgcat atattattat 180  
taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa 240

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aaattcaaat tagaacaaat taaatctcag ttgctttat tatattatta tcaacaataa 300  
 taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga 360  
 agccattaat cctcatcatc agctcgacca ctcatcttct cttcatactt cctttgctgt 420  
 gataatcatc atc 433

<210> 7  
 <211> 818  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(818)  
 <223> -818 deletion promoter

<400> 7  
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 gaagttccat ctatggaaat aacggattat ttatctaatt ttcaaattct atatatatag 120  
 tctcgagtgg aacaaaaata gaactaattt gaacaaatca aagtctaaga aaataataca 180  
 tgcttttagca gcaaaaaata gaatggtact atacttaatc ctcatcatag tcttcaaccc 240  
 tgcataatagc acacttaaca ttttatattc aaatatactt taatttagtc atgataatac 300  
 aactcaccta ctccattata gccgataata caactcacct agctactcca ttatagtcca 360  
 acaatatcaa atgaataaaa tagtaatggt gacttaaagg gctgaatcca acatatattc 420  
 tgacatttaa aaatgctaac gtacggtttag attagtataa tgaaataaag ttaatcattc 480  
 tctatatttg atgatggtaa ttagtatcat ggtaagggtgt tttatcgtgg cagcatgagt 540  
 gcatgacaaa cgcataatatt attattaaaa caaaatagta ctccaatcat aataaattat 600  
 cttatattat attgccaaca attaaaaatt caaattagaa caaattaaat ctgagtttgc 660  
 tttattatat tattatcaac aataataatt taatactgat cgaagaactt tccctttcaa 720  
 gttctctatt taaggaagcc tgagaagcca ttaatcctca tcatcagctc gaccactcat 780  
 ttctttcttca tacttccttt gctgtgataa tcatcatc 818

<210> 8  
 <211> 1199  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(1199)  
 <223> -1199 deletion promoter

<400> 8  
 atgcagggtg aaagtaagat tgaatatact gatactacaa ttaactaatg ataaagtata 60

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acttttgtaa aaaatttgat tttttttttt gatgaattca tataactcaa agattttcct 120
catttaatta aattttctatc ctcatgttga acccattaat cgaataattg acatattaga 180
taaacttagc catcatatga catttgatca tgattgatga tttttaaaaa ataaaaacaa 240
aattatgaaa gggtaatgaa atatttttaa aaaattatgt aaaccctgta atctagtaat 300
ctgtacaata ataattttgt ttcaactaag aggatgttgg caaaagtata attaaacttg 360
tgatcttcgt acaataatta tgcttcacgc actcaactag tcacatcttt ccaggcaaaa 420
tttacttttc tatgaatatg agaagttcca tctatggaaa taacggatta tttatctaata 480
tttcaaattc tatatatata gtctcgagtg gaacaaaaat agaactaatt tgaacaaatc 540
aaagtctaag aaaataatac atgcttttagc agcaaaaata agaatggtac tatacttaata 600
cctcatcata gtcttcaacc ctgcatatag cacacttaac attttatatt caaatatact 660
ttaatttagt catgataata caactcacct actccattat agccgataat acaactcacc 720
tagctactcc attatagtcc aacaatatca aatgaataaa atagtaatgg tgacttaaag 780
ggctgaatcc aacatatatt ctgacattta aaaatgctaa cgtacggtta gattagtata 840
atgaaataaa gttaatcatt ctctatattt gatgatggta attagtatca tggtaagggtg 900
ttttatcgtg gcagcatgag tgcattgaca acgcatatat tattattaaa acaaaatagt 960
actccaatca taataaatta tcttatatta tattgccaac aattaaaaat tcaaattaga 1020
acaaattaaa tctcagtttg ctttattata ttattatcaa caataataat ttaatactga 1080
tcgaagaact ttccctttca agttctctat ttaaggaagc ctgagaagcc attaatcctc 1140
atcatcagct cgaccactca tttcttcttc atacttcctt tgctgtgata atcatcatc 1199

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<210> 9
<211> 1467
<212> DNA
<213> Ipomoea batatas

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<220>
<221> promoter
<222> (1)..(1467)
<223> -1467 deletion promoter

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<400> 9
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ataaaaaata ttgggtcaaa ataccttacc gattttttccc aaatattcac ggaacttact 180
gccagaatct accctgcttt ttcccttcac tattttcaca actataagca tatatgggca 240
taaatatgac atgaacatgc atgaaccaat gcagggtgaa agtaagattg aatatactga 300
tactacaatt aactaatgat aaagtataac ttttgtaaaa aatttgattt ttttttttga 360

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tgaattcata tactccaaag attttctctca ttttaattaaa tttctatcct catgttgaac	420
ccattaatcg aataattgac atattagata aacttagcca tcatatgaca tttgatcatg	480
attgatgatt tttaaaaaat aaaaacaaaa ttatgaaagg gtaatgaaat attttaaaaa	540
aattatgtaa accctgtaat ctagtaatct gtacaataat aattttgttt caactaagag	600
gatgttggca aaagtataat taaacttggtg atcttcgtac aataattatg cttcacgcac	660
tcaactagtc acatctttcc aggcaaaatt tacttttcta tgaatatgag aagttccatc	720
tatggaaata acggattatt tatctaattt tcaaattcta tatatatagt ctcgagtgga	780
acaaaaatag aactaatttg aacaaatcaa agtctaagaa aataatacat gcttttagcag	840
caaaaataag aatggtacta tactttaatcc tcatcatagt cttcaaccct gcatatagca	900
cacttaacat tttatattca aatatacttt aatttagtca tgataataca actcacctac	960
tccattatag ccgataatac aactcaccta gctactccat tatagtccaa caatatcaaa	1020
tgaataaaat agtaatggtg acttaaaaggg ctgaatccaa catatatctt gacatttaaa	1080
aatgctaacg tacggttaga ttagtataat gaaataaagt taatcattct ctatatttga	1140
tgatggtaat tagtatcatg gtaagggtgtt ttatcgtggc agcatgagtg catgacaaac	1200
gcatatatta ttattaaaac aaaatagtagc tccaatcata ataaattatc ttatattata	1260
ttgccaaaca ttaaaaattc aaattagaac aaattaaatc tcagtttgct ttattatatt	1320
attatcaaca ataataattt aatactgatc gaagaacttt ccctttcaag ttctctatct	1380
aaggaagcct gagaagccat taatcctcat catcagctcg accactcatt tcttcttcat	1440
acttcctttg ctgtgataat catcatc	1467

<210> 10  
 <211> 1934  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(1934)  
 <223> -1934 deletion promoter

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aatatcatct ctacttaaac tagagagatt tccaactctc aattaatcac caaaggtaac	180
tctccaaata tccaaatgga aggtttcaac ttccaaacta ataccaaacc aaccggacta	240
atcataatca tattcataat cataaattgt ttctaactgc ccctgtccag aaattacagt	300
tttgcgcagt ccgaaagatt gagccggtaa caatagttcc cgaactcttt ttcacttgaa	360

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atttttatgg tagaacccta acttatagta cttgatatcc ataaaaagtt ttggtcacct 420
aggttcacga attaacacag aaaattacat ctttgccctt ggcagtgggc tgtccggaat 480
tctgtctctc tggaccagtt ttggcaaaca attttgaaac cacacttata ctactccaaa 540
aattatgaaa tttttatggt agcttctaca cttatagaac tacatgtata aaaaatattg 600
gggtcaaaata ccttaccgat ttttcccaaa tattcacgga acttactgcc agaatctacc 660
ctgctttttc ctttcactat tttcacaact ataagcatat atgggcataa atatgacatg 720
aacatgcatg aaccaatgca gggtgaaagt aagattgaat atactgatac tacaattaac 780
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tccaaagatt ttcctcattt aattaaattt ctatcctcat gttgaacca ttaatcgaat 900
aattgacata ttagataaac ttagccatca tatgacattt gatcatgatt gatgattttt 960
aaaaaataaa aacaaaatta tgaaagggtg atgaaatatt ttaaaaaaat tatgtaaacc 1020
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tctttccagg caaaattttac ttttctatga atatgagaag ttccatctat ggaaataacg 1200
gattattttat ctaattttca aattctatat atatagtctc gagtgggaaca aaaatagaac 1260
taatttgaac aaatcaaagt ctaagaaaat aatacatgct ttagcagcaa aaataagaat 1320
gggtactatac ttaatcctca tcatagtctt caaccctgca tatagcacac ttaacatttt 1380
atattcaaat atactttaat ttagtcatga taatacaact cacctactcc attatagccg 1440
ataatacaac tcacctagct actccattat agtccaacaa tatcaaatga ataaaatagt 1500
aatggtgact taaagggtcg aatccaacat atattctgac atttaaaaaat gctaacgtac 1560
ggttagatta gtataatgaa ataaagttaa tcattctcta tttttgatga tggtaattag 1620
tatcatggta aggtgtttta tcgtggcagc atgagtgcac gacaaacgca tatattatta 1680
ttaaaacaaa atagtactcc aatcataata aattatctta tattatattg ccaacaatta 1740
aaaattcaaa ttagaacaaa ttaaattctca gtttgcttta ttatattatt atcaacaata 1800
ataatttaat actgatcgaa gaactttccc tttcaagttc tctatttaag gaagcctgag 1860
aagccattaa tcctcatcat cagctcgacc actcatttct tcttcatact tcctttgctg 1920
tgataatcat catc 1934

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<210> 11  
 <211> 2433  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter

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<222> (1)..(2433)  
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 gacgaataga cttcgccctg aactagacat acgacaacat agccaccata cgggaaaggc 120  
 acttcaagct ctttatcccg taggctgcaa caacataacg acataacgac cactgggcaa 180  
 gggcatttac agccaccctg gggctcaatca aggtcctcct cactcacttt agaaactaag 240  
 gggttgaaaa catgatcttt ctttcagttt ttcttacaac aaatcattca ctttggacac 300  
 atttcacaat tgagtccaat acttaaaccg gctacttcat tagcccctga aggattttta 360  
 aaaaaacttt cactgcccgc aggtctcttca aacatctttt cctcattatc aagtgaggca 420  
 ttttcctcaa aagtaagggt ttgacaacct ttatatcaaa atagcatacg tttttcaacg 480  
 taagtttcat aacatttact tgccatctca ccacttcgtc ttaaacaatc taggatattc 540  
 ttagatatc ttcatactca agtctcacac ttgaaatcaa tcaagactct tacactaaca 600  
 attcctcaat atacctcata atatcatctc tacttaaaact agagagattt ccaactctca 660  
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 taccaaacca accggactaa tcataatcat attcataatc ataaattggt tctaactgcc 780  
 cctgtccaga aattacagtt ttgcgcagtc cgaaagattg agccggtaac aatagttccc 840  
 gaactctttt tcacttgaaa tttttatggt agaaccctaa cttatagtac ttgatattca 900  
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 ttgaacccat taatcgaata attgacatat tagataaact tagccatcat atgacatttg 1440  
 atcatgattg atgattttta aaaaataaaa acaaaattat gaaagggtaa tgaaatattt 1500  
 taaaaaaatt atgtaaaccc tgtaatctag taatctgtac aataataatt ttgtttcaac 1560  
 taagaggatg ttggcaaaag tataattaaa cttgtgatct tcgtacaata attatgcttc 1620  
 acgcactcaa ctagtacat ctttccaggc aaaatttact tttctatgaa tatgagaagt 1680  
 tccatctatg gaaataacgg attatttatc taattttcaa attctatata tatagtctcg 1740



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agtggaacaa aaatagaact aatttgaaca aatcaaagtc taagaaaata atacatgctt 1800  
tagcagcaaa aataagaatg gtactatact taatcctcat catagtcttc aaccctgcat 1860  
atagcacact taacatttta tattcaaata tactttaatt tagtcatgat aatacaactc 1920  
acctactcca ttatagccga taatacaact cacctagcta ctccattata gtccaacaat 1980  
atcaaatgaa taaaatagta atggtgactt aaagggctga atccaacata tattctgaca 2040  
tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat 2100  
atgtgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcagt 2160  
acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat 2220  
attatattgc caacaattaa aaattcaaat tagaacaat taaatctcag ttgctttat 2280  
tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct 2340  
ctatttaagg aagcctgaga agccattaat cctcatcatc agctcgacca ctcatcttct 2400  
cttcatactt cctttgctgt gataatcatc atc 2433

<210> 12  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> GSP1 promoter

<400> 12  
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<210> 13  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> AP1 promoter

<400> 13  
gtaatacgac tcactatagg gc 22

<210> 14  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> GSP2 promoter

<400> 14  
cacagcaaag gaagtatgaa gaagc 25

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<211>	19	
<212>	DNA	
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<223>	AP2 promoter	
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<210>	16	
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<212>	DNA	
<213>	Artificial Sequence	
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<223>	exon promoter	
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<210>	17	
<211>	30	
<212>	DNA	
<213>	Artificial Sequence	
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<223>	intron promoter	
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<212>	DNA	
<213>	Artificial Sequence	
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<213>	Artificial Sequence	
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<223>	forward primer for -1934 deletion promoter	
<400>	19	

gccaaagcttt tgccatctca ccacttcgtc tta 33

<210> 20  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

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 <211> 33  
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<210> 22  
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 <213> Artificial Sequence

<220>  
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<400> 22  
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 <223> reverse primer for -2433, 1934, 1467, 1199, 818, 433, 366, 306, 177 and 110 deletion promoter

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<223> forward primer for NPTII

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